

# 1994 TRIP GENERATION WORKSHEET - Page 3 of 3

## INTERNAL-EXTERNAL TRIPS

| Employment/Population Ratio(s) |         |        |            | Employ/Pop Reduction Factor (EPR): | 0.75       |
|--------------------------------|---------|--------|------------|------------------------------------|------------|
|                                | Employ. | Pop.   | Employ/Pop | INTERNAL TRIP DISTRIBUTION         |            |
| County                         | 24,247  | 50,249 | 0.48       | # with                             | # with     |
| Twncshp.                       | 5,331   | 10,369 | 0.51       | Ext. dest.                         | Int. dest. |
| City                           | 2,594   | 6,000  | 0.43       | (TPi-e)                            | (TPi-I)    |
| Average Employ/Pop Ratio:      |         |        | 0.48       | 8,295                              | 24,884     |
| Plan Area                      | 4,490   | 9,978  | 0.45       |                                    |            |

TPi-e = # of internally generated trips with external destinations = (TPin-(TPin \* EPR)).

TPi-I = # of internally generated trips with internal destinations = (TPin -TPi-e).

The values for population are the 1994 projected population values. The value for county employment is the 1994 actual value for the Labor Force. All other employment values are estimated.

Step 3: NonHome Based Secondary trips are added to internal trips with internal destinations (II). NonHome Based Secondary trips are made by external trips (E-I which enter the planning area. The Secondary Trip Generation Factor was taken from Technical Report #11, Table 2, using Ahoski as the closest match toWhiteville (per KDH). External trips with internal destinations (E-I are computed by subtracting thru trip ends (E-E) and internally generated trips with external destinations (IE) from the external production (CADT). See the Cordon Worksheet.

## SECONDARY TRIPS

|   |        |
|---|--------|
| Secondary Trip Generation Factor (NHB): | 0.324  |
| E-I Trips (TPe-I):                      | 22,473 |
| NHB Secondary Trips (TPnhb):            | 7,281  |

GRAND TOTAL 1994 INTERNAL TRIPS (TPintot): 32,165

|                     |        |                              |
|---------------------|--------|------------------------------|
| Cordon ADT (CADT):  | 67,780 | (from CORDON)                |
| Thru Trips (TPe-e): | 18,506 | (from CORDON)                |
| External Trips:     | 30,768 | (CADT - [TPe-e * 2])         |
| I-E Trips (TPi-e):  | 8,295  | (from above)                 |
| E-I Trips (TPe-i):  | 22,473 | (CADT - [TPe-e * 2] - TPi-e) |
| I-I Trips (TPi-i):  | 24,884 | (from above)                 |
| NHB Trips (TPnhb):  | 7,281  | (E-I Trips * NHB %age)       |

TPe-e = # of externally gen. trips with external destinations (thru trips).

TPe-i = # of externally gen. trips with internal destinations.

TPnhb = # of secondary non-home-based trips.

TPintot = total # of internal trips with internal destinations = (TPi-I + TPnhb).